

Date: Sun, 7 Nov 93 10:04:25 PST
From: Info-Hams Mailing List and Newsgroup <info-hams@ucsd.edu>
Errors-To: Info-Hams-Errors@UCSD.Edu
Reply-To: Info-Hams@UCSD.Edu
Precedence: Bulk
Subject: Info-Hams Digest V93 #1318
To: Info-Hams

Info-Hams Digest Sun, 7 Nov 93 Volume 93 : Issue 1318

Today's Topics:

10m equip
ANS-310 BULLETINS
BAUD VS BAUDS
Bird watt-meters can't be exported?
Homosaturation
How to calibrate a DVM
MorseTrainer for Mac
Need ALASKA for 75m WAS
Observations on Kenwood TH-78
PK232 vs Kenwood
Radio Shack HTs
Scanner for sale from Canada
Sony HVC-2500 Video Camera Pinouts?
We've lost him, Jim!
WW-DX Fone 93 QSL info collection

Send Replies or notes for publication to: <Info-Hams@UCSD.Edu>
Send subscription requests to: <Info-Hams-REQUEST@UCSD.Edu>
Problems you can't solve otherwise to brian@ucsd.edu.

Archives of past issues of the Info-Hams Digest are available
(by FTP only) from UCSD.Edu in directory "mailarchives/info-hams".

We trust that readers are intelligent enough to realize that all text
herein consists of personal comments and does not represent the official
policies or positions of any party. Your mileage may vary. So there.

Date: Fri, 5 Nov 93 19:29:00 -0400
From: news.service.uci.edu!paris.ics.uci.edu!csulb.edu!library.ucla.edu!
europa.eng.gtefsd.com!darwin.sura.net!hearst.acc.Virginia.EDU!uvaarpa!pplace!
chris.myers@network.ucsd.edu
Subject: 10m equip
To: info-hams@ucsd.edu

Hey, if anybody has any "cheap" (guess that's relative huh? :) 10m

equip for sale let me know...

Date: 7 Nov 93 17:20:50 GMT
From: news-mail-gateway@ucsd.edu
Subject: ANS-310 BULLETINS
To: info-hams@ucsd.edu

SB SAT @ AMSAT \$ANS-310.01
DOVE-OSCAR-17 RETURNS TO 2M!

HR AMSAT NEWS SERVICE BULLETIN 310.01 FROM AMSAT HQ
SILVER SPRING, MD NOVEMBER 6, 1993
TO ALL RADIO AMATEURS BT
BID: \$ANS-310.01

DOVE-OSCAR-17 (DO-17) Returns To 2M: DOVE RECOVERY BEGINS!

DOVE is currently up and running on 2M. It is sending normal ASCII telemetry and a short text bulletins on 145.825 MHz. A very quick look at telemetry indicates the spacecraft is basically healthy. The DOVE Recovery Team of Bob Diersing (N5HAD), Bill McCaa (K0RZ), and Jim White (WD0E) have been working very intensively for about 10 days to create and test new software that allowed automated software loading via 2M in a half-duplex mode. This replaces the "ear-ack on S-Band" method N4HY had used in the past that was so difficult as to be a barrier to recovery.

WD0E and the DOVE Recovery Team would like to receive telemetry reports. Please send them to vk7zbx@KO-23, @AO-16 or on INTERNET to vk7zbx@amsat.org or to wd0e@amsat.org, or to the CompuServe address of 71477,546. The most recent version of TLMDCII (3-8-92) will decode and record DOVE telemetry very nicely. For more information about obtaining a copy of the TLMDC program, contact AMSAT-NA HQs at (301) 589-6062. After the DOVE Recovery Team is sure the satellite is stable in this configuration and the RF transmitter power targets are established, the next step will be to load up through PHTX and test the voice module. Depending on the condition of the spacecraft and other issues, this could take several weeks.

WD0E would like to express sincere thanks to Bob Diersing for all of his hard work creating a RAM loader, and Bill McCaa for the many passes of S-band and two meter receive he provided (often late into the night). It could not have been done without their enthusiastic efforts. Also, thanks to Harold Price (NK6K) for providing the the development system hardware, software, and a good deal of coaching. His contributions were invaluable.

Given a reasonably healthy satellite, WD0E is confident we can make DOVE talk as he described at the AMSAT-NA Space Symposium in Dallas a few weeks

ago.

[The AMSAT News Service (ANS) would like to thank Jim White (WD0E) for this bulletin item. If you would like to send DOVE telemetry to Jim, again, his INTERNET address is wd0e@amsat.org and his CompuServe address is 71477,546.]

/EX

SB SAT @ AMSAT \$ANS-310.02
ITAMSAT-OSCAR-26 STATUS REPORT

HR AMSAT NEWS SERVICE BULLETIN 310.02 FROM AMSAT HQ
SILVER SPRING, MD NOVEMBER 6, 1993
TO ALL RADIO AMATEURS BT
BID: \$ANS-310.02

IW3QOK Provides An Update On ITAMSAT-OSCAR-26 (IO-26)

First of all IW3QOK wants to apologize to all those who have sent their status reports and telemetry data about IO-26 satellite to him without having had any response come back from him. IW3QOK reports that he has not enough time to read all the messages to answer each individually, nor to follow the all the discussions concerning IO-26. For those who have sent in these telemetry and status reports to IW3QOK, he notes that he has found them to be quite invaluable and they contribute greatly to making IO-26 an even more interesting and useful satellite from the user's point of view.

The telemetry data received so far shows that all systems are working properly and that IO-26 is presently in a good health. The Bulletin Board System (BBS) has been opened, as the most of you already know, and the number of users of IO-26 is growing rapidly as each day passes.

It is well known that IO-26 is presently in a state of low power consumption, and consequently the RF power output from the transmitter is about 250 mW. This is NOT a problem, but has been implemented because of battery considerations and also because its signal is already very good and quite readable. Two days ago an Italian command station, in Milano, increased the RF output power of the 70cm transmitter to its maximum value (approx. 4W) as a test for a few minutes. Everything worked fine during this test. The Battery Charge Regulator (BCR) is working well and the solar panels are charging the batteries regularly. Recently IW3QOK received some questions about why the array voltage was so low (around 11V) with respect to the other MICROSATs. The answer is very simple: IO-26 uses highly efficient solar array panels that have a lower voltage than those used on the other MICROSATs so it is not necessary for you to worry about this issue. Another question which IW3QOK receives many inquiries about is the very high value presented by the Error Detection And Correction (EDAC) telemetry counter. His theory is that there must be a little "bug" in the

telemetry software and ITAMSAT's main working group (in Milano) is already working to solve this problem.

Date: Fri, 5 Nov 1993 21:08:29 +0000
From: sdd.hp.com!spool.mu.edu!howland.reston.ans.net!pipex!demon!
llondel.demon.co.uk!dave@network.ucsd.edu
Subject: BAUD VS BAUDS
To: info-hams@ucsd.edu

In article <CFyxCL.H5A@cbnewsj.cb.att.com> k2ph@cbnewsj.cb.att.com (The QRPer) writes:

>
>No. It's very much like saying "trees." Take a look at V.32, for
>example. Take a look at ETSI DTR/TM-3017.
>
>There are some words that are both singular and plural. Baud is
>not one of them. Bauds is the one word to have when you're having
>more than one. :-)

>
I reckon it *is* a single word 'baud' for both cases, but that might be the difference between English English and American English.

Dave

--

* G4WRW @ GB7WRW.#41.GBR.EU AX25 * Start at the beginning. Go on *
* dave@llondel.demon.co.uk Internet * until the end. Then stop. *
* g4wrw@g4wrw.ampr.org Amprnet * (the king to the white rabbit) *

Date: 4 Nov 93 13:06:48 CST
From: timbuk.cray.com!hemlock.cray.com!cherry10!dadams@uunet.uu.net
Subject: Bird watt-meters can't be exported?
To: info-hams@ucsd.edu

In article 011193210015@slip-3-15.ots.utexas.edu, miles@mbs.telesys.utexas.edu (Miles Abernathy) writes:

| > : >>>>So, what's with the "Not available for export" notation across the
| > : >>>>photo of the Bird meter in the Barry ads? Too delicate? Upsets
| > : >>>>someone's monopoly? Munitions? Classified equipment?
| > : >>>
| > : >>>The meter would have to be recalibrated to read foreign watts.
| > : >>>

>Hey guys, could we change this thread to talk about Hams with bipolar
>personalities who ride Harleys and are members of Mensa? That would be
>a lot more interesting to me.

You're a stuck up, self important, schizophrenic, biker Amateur?

:)

--

Any opinions expressed herein are not intended to be construed as those of UVA

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-----  
 \ \ /   Jon Gefaell,  Computer Systems Engineer   | Amateur Radio - KD4CQY  
  \ \ /   Systems Research, ITC OSSSD/Carruthers Hall | -Will chmod for food-  
   \ /    The University of Virginia, Charlottesville | Hacker@Virginia.EDU
```

Date: Fri, 5 Nov 1993 00:53:12 GMT

From: news.kpc.com!amd!amdahl!netcomsv!netcom.com!btoback@decwrl.dec.com

Subject: How to calibrate a DVM

To: info-hams@ucsd.edu

In article <CFz6rL.AxL@tc.fluke.COM> rem@tc.fluke.COM (Randy Mather) writes:

>In article <2b3ol3\$npn@gdls.gdls.com> turini@gdls.com (Bill Turini) writes:

>

>>I have three digital voltmeters in my shack, none of which agree with the
>>others.

>>

>>The problem I have is how to calibrate the voltage. I have heard that
>>mercury cells like those used in cameras are quite stable and consistent
>>in voltage and that they can be used to calibrate a meter. Has anyone had
>>experience with this? Will it work? Is there a better way?

>

>One thing you can do is find a meter that has been calibrated recently
>say from a friend or at work and check the meters against it. Using
>mercury cells can be tricky and not all meters are alike.

One other thing you can do is send one of the three DVMs to a calibration
lab and pay the \$50 or so they'll charge you. Then calibrate the other
two using the first as a standard. Not cheap or clever, but straightforward.

-- Bruce Toback

Date: Thu, 4 Nov 1993 22:59:26 GMT

From: news.kpc.com!amd!amdahl!netcomsv!netcom.com!msattler@decwrl.dec.com

Subject: MorseTrainer for Mac
To: info-hams@ucsd.edu

Kenneth E. Harker (kharker@bnr.ca) wrote:

: Stuffit Expander is a very useful freeware utility, as it can
: decompress both .sit and .cpt archives, and it supports
: drag-and-drop.

And it does the BinHex conversion for you as well. Drag a
foo.#.hqx (where # is "cpt", "sit", or "sea") and you'll see
Stuffit Expander perform a two-pass transformation: the first
will BinHex, the second will decompress. You'll have to then
throw away the first two states, lest your hard disk fill up.

: -) M
--

Michael S. Sattler msattler@netcom.com +1 (415) 621-2903
Digital Jungle Software Encrypt now; ask me how. (finger for PGP key)

 All that is required for evil to triumph is
 for {wo}men of good will to do nothing.

Date: 7 Nov 93 16:03:26 GMT
From: ogicse!emory!europa.eng.gtefsd.com!howland.reston.ans.net!noc.near.net!
news.delphi.com!gilbaronw0mn@network.ucsd.edu
Subject: Need ALASKA for 75m WAS
To: info-hams@ucsd.edu

I hope you get your Alaska station. Believe it or not by hard to get was
Nebraska. I haven't been on for a while and probably should since lts want
the stae abbreviation. If anyone needs my calll send me a note.

 Gil Baron, El Baron Rojo, WOMN Rochester,MN
 "Bailar es Vivir"
 PGP2.X key at key servers or upon request

Date: 7 Nov 93 16:04:04 GMT
From: ogicse!emory!europa.eng.gtefsd.com!howland.reston.ans.net!noc.near.net!
news.delphi.com!gilbaronw0mn@network.ucsd.edu
Subject: Observations on Kenwood TH-78
To: info-hams@ucsd.edu

>What about the Yaesu FT-530. Whould that be a comparable rig? Better? or
>Worse? Has anyone used the FT-530. Can it be modified? Does the rx range
>go below 130 MHz.

I have a 530 and it does receive the aircraft band. There are to things to think about though. The sensitivity in the aircraft band is abysmal and it does require a mod to do that. If you can't unsolder a pad that is only a little bigger than a period on a line of text then be prepared to pay over 100 dollars (they were charging 160 for all dual bands at the recent hamfest in Minneapolis) to have it done for you. That is a rip off and I beleive that Yaesu should be soundly ripped for not shipping the radio with at least the wide band recieve enabled. The advertising is EXTREMELY misleading on that.

Gil Baron, El Baron Rojo, WOMN Rochester,MN
"Bailar es Vivir"
PGP2.X key at key servers or upon request

Date: 5 Nov 1993 01:22:05 GMT
From: news.centerline.com!noc.near.net!news.delphi.com!gilbaronw0mn@uunet.uu.net
Subject: PK232 vs Kenwood
To: info-hams@ucsd.edu

I found that you must unplug the mike or you get this problme on my ts440. It might help. Also set the output from the 2323 high so that the gain on the kenwood can be low.

Gil Baron, El Baron Rojo, WOMN Rochester,MN
"Bailar es Vivir"
PGP2.X key at key servers or upon request

Date: 7 Nov 93 16:03:44 GMT
From: ogicse!emory!europa.eng.gtefsd.com!howland.reston.ans.net!noc.near.net!news.delphi.com!gilbaronw0mn@network.ucsd.edu
Subject: Radio Shack HTs
To: info-hams@ucsd.edu

>Has anyone done any real tests on HT's to see if any are more
>sensitive to intermod than others?

Well not scientific but my FT530 does get lots of intermod in downtown Mminneapolis and even some around my home area of Rochester,MN. The radio shcack that I used to have did not but I don't care. The features of the 530

make it so much more useful that I can put up with it. It will never clear up since if you make it narrow band you can't receive the wide stuff and so they will always be worse. It would be possible to improve but the cost would be astronomical.

Gil Baron, El Baron Rojo, WOMN Rochester,MN
"Bailar es Vivir"
PGP2.X key at key servers or upon request

Date: 6 Nov 93 20:32:08 GMT
From: paris.ics.uci.edu!csulb.edu!library.ucla.edu!europa.eng.gtefsd.com!
howland.reston.ans.net!math.ohio-state.edu!cyber2.cyberstore.ca!vanbc.wimsey.com!
deep.rsoft.bc.ca!@news.service.uci.edu
Subject: Scanner for sale from Canada
To: info-hams@ucsd.edu

REALISTIC RADIO SHACK SCANNER
300 CHANNEL PRO-2004 VHF-UHF
DIRECT ENTRY PROGRAMMABLE AM FM RECEIVER
MODIFIABLE TO RECEIVE CELLULAR FREQUENCIES
CAN BE UP GRADED TO PRO-2006 WITH SIMPLE MODIFICATIONS
ASKING PRICE \$275.00 FIRM
INQUIRES PLEASE LEAVE NET-MAIL
Please note Scanner has been modified to receive cellular and works perfectly
As well scanner can be simply modified to upgrade to the PRO-2006 level.

Date: Sat, 6 Nov 1993 15:01:45 GMT
From: europa.eng.gtefsd.com!howland.reston.ans.net!math.ohio-state.edu!
magnus.acs.ohio-state.edu!csn!col.hp.com!srngenprp!news.dtc.hp.com!
hpscit.sc.hp.com!cupnews0.cup.hp.com@library.ucla.edu
Subject: Sony HVC-2500 Video Camera Pinouts?
To: info-hams@ucsd.edu

I just picked up a Sony HVC-2500 Video camera which I want to use for my ATV station. Anyone know the pinout information for this camera?

```
Pin1 >  x x x x   < Pin 4
        x x x x

        x x x x
        x x
```

Thanks in advance for any help!

Steve King
(KD7RO)

Date: Thu, 4 Nov 93 22:30:43 EST
From: news.centerline.com!noc.near.net!news.delphi.com!usenet@uunet.uu.net
Subject: We've lost him, Jim!
To: info-hams@ucsd.edu

This is a little off-topic, but I've been able to work RS-10 from a parked car, using 10 watts of 2 meter SSB into a 1/4 wave mag mount, and for the downlink I just used a CB whip to monitor 29 mhz.

For RS-12 I've made several contacts using just an Icom 735, a ten meter wire dipole and a small tuner to feed 21 mhz safely into a 29 mhz antenna. I put the 15 meter uplink into one VFO and the 10 meter downlink into the other VFO, and pressed the "split" button. Yes, I could not hear myself on the downlink, but I usually can work the longer North-to-South passes that are of 15+ minutes.

Enough bragging... 73 from Leigh/KM6JE in Santa Barbara.

Date: 7 Nov 93 15:55:02 GMT
From: ogicse!emory!europa.eng.gtefsd.com!howland.reston.ans.net!
usenet.ins.cwru.edu!hal!rab@network.ucsd.edu
Subject: WW-DX Fone 93 QSL info collection
To: info-hams@ucsd.edu

In article <1993Nov02.132819.4046@news.tu-ilmenau.de> tom@systemtechnik.tu-ilmenau.de (Thomas Planke) lists QSL info for the ww dx fone 1993 contest:

Thanks for the info, Thomas. The only info I can add is as follows:

>5Z4BI	W4FRU
>8R1K	OH0XX
>9K2ZZ	W8CNL
>N6VI/KH6	Martin A. Woll, 59-768 Kanalani Place, Haleiwa, HI 96712 U.S.A.
>P40W	N2MM
>ZF2JI	KG6AR

I need help with these:

CQ9M

TM1K
HK0HEU
HR1ERL
IO2L
J37K
L40A
LX1KC
OH2X
OH0DX
OM3KAG
P40L
PJ1B
ZY5C
CH6ITT
VY9QR
ZP80A

73, Roger AA8DV

--

Roger Bielefeld, Ph.D.	Dept of Epidemiology and Biostatistics
Assistant Professor	Case Western Reserve University
rab@hal.cwru.edu	Cleveland, Ohio USA

Date: (null)

From: (null)

Again IW3QOK would like thank all those who have sent him telemetry and it is his hope that you will continue to enjoy using IO-26.

[The AMSAT News Service (ANS) would like to thank IW3QOK for this bulletin item.]

/EX

SB SAT @ AMSAT \$ANS-310.03

AMSAT OPS NET SCHEDULE

HR AMSAT NEWS SERVICE BULLETIN 310.03 FROM AMSAT HQ

SILVER SPRING, MD NOVEMBER 6, 1993

TO ALL RADIO AMATEURS BT

BID: \$ANS-310.03

Current AMSAT Operations Net Schedule For AO-13

AMSAT Operations Nets are planned for the following times. Mode-B Nets are conducted on AO-13 on a downlink frequency of 145.950 MHz. If, at the start of the OPS Net, the frequency of 145.950 MHz is being used for a QSO,

OPS Net enthusiasts are asked to move to the alternate frequency of 145.955 MHz.

Date	UTC	Mode	Phs	NCS	Alt NCS
13-Nov-93	1230	B	146	VE2LVC	W5IU
28-Nov-93	0230	B	39	WJ9F	VE2LVC
12-Dec-93	0435	B	180	W9ODI	WB6LLO

Any stations with information on current events would be most welcomed. Also, those interested in discussing technical issues or who have questions about any particular aspect of OSCAR statellite operations, are encouraged to join the OPS Nets. In the unlikely event that either the Net Control Station (NCS) or the alternate do not call on frequency, any participant is invited to act as the NCS.

Slow Scan Television on AO-13

SSTV sessions will be held on immediately after the OPS Nets a downlink on a Mode-B downlink frequency 145.960 MHz.

/EX

SB SAT @ AMSAT \$ANS-310.04

WEEKLY OSCAR STATUS REPORTS

HR AMSAT NEWS SERVICE BULLETIN 310.04 FROM AMSAT HQ

SILVER SPRING, MD NOVEMBER 6, 1993

TO ALL RADIO AMATEURS BT

BID: \$ANS-310.04

Weekly OSCAR Status Reports: 06-NOV-93

AO-13: Current Transponder Operating Schedule:

M QST *** AO-13 TRANSPONDER SCHEDULE *** 1993 Oct 25-Nov 15

Mode-B : MA 0 to MA 130 !

Mode-BS : MA 130 to MA 180 !

Mode-S : MA 180 to MA 205 !<- S transponder; B trsp. is OFF

Mode-S : MA 205 to MA 210 !<- S beacon only

Mode-BS : MA 210 to MA 226 ! Blon/Blat 210/0

Omnis : MA 240 to MA 80 ! Move to attitude 240/0, Nov 15

Please don't uplink to Mode-B between MA 180-205 as this interferes with Mode-S transponder operations. Continuous up-to-date information about AO-13 operations is always available on the beacons at 145.812 MHz and 2400.646 MHz in CW, RTTY and 400 bps PSK. Also, these bulletins are also posted to INTERNET, ANS bulletins, Packet, PACSATs, as well as many international newsletters. In additional notes about AO-13, G3RUH reports the

following: the partial solar eclipse of 13-NOV-93 [Sat] (visible from Antarctica) also affects AO-13. AO-13 will see the Moon eclipse the Sun from 13:33 - 15:13 UTC with a maximum of 89% obscuration at 14:16 UTC. This will be Orbit 4148, with MA 171-208. The encounter will be "visible" on the spacecraft telemetry to stations in the entire Pacific area, Australia and Japan, and the US west coast. US stations east of Salt Lake City will have LOS during the encounter, seeing less the further east they are. AO-13 is not in view of Europe at this time. It will not be necessary to shut down the transponders on this occasion because Mode-S is ON, and consumes little power. The 145 MHz telemetry beacon will be available up to MA 205 and will continue on S-band. The Whole Orbit Data (WOD) collection facility will dwell on battery voltage at 1 MA intervals. On the issue of Solar Eclipses by the sun: these commence on 07-DEC-1993 [Tue] and continue until 24-DEC-93 [Fri]. These eclipses are of course total. The maximum lasts 136 minutes, and is the longest AO-13 has ever experienced. The Mode-B transponder will be OFF from MA 95 to 180 during this two week period. The WOD collection facility will dwell on interesting sensor points. Anybody requiring a specific value to be monitored should contact a command station with details of parameter wanted, start time, and MA interval. Up to 384 samples can be taken per K-block. [G3RUH/DB20S/VK5AGR]

DOVE: DO-17 currently sending AX.25 packet telemetry on a downlink frequency of 145.825 MHz. [WD0HHU]

AO-16: Operating normally. [WH6I]

UO-22: Operating normally. [WH6I]

LO-19: Operating normally. [WH6I]

KO-23: Up and running. Busy as usual. [WH6I]

KO-25: File system is up but not open for uploads. It appears that the satellite has taken an EIS image but it is not available. [WH6I]

AO-27: No information received but it is assumed that this spacecraft is still in the testing phase. ANS will present further information when received. [W3X0]

IO-26: Up and running with a lot of activity. The signal is weaker than AO-16 or LO-19 but good throughput is still possible. The following table is just a "quick-review" of the IO-26 frequencies: TXA PSK=435.867 MHz, TXB PSK/FM=435.827 MHz, RX #1=145.875 MHz, RX #2=145.900 MHz, RX #3=145.925 MHz, RX #4=145.950 MHz. [IK20VV]

FO-20: The following is the transponder operating schedule for the month of November and December:

ANALOG Mode-J Voice & CW Operations:

10-NOV-93 09:23 -TO- 11-NOV-93 07:51 UTC
17-NOV-93 07:44 -TO- 18-NOV-93 08:15 UTC
24-NOV-93 08:20 -TO- 25-NOV-93 08:38 UTC
01-DEC-93 08:43 -TO- 08-DEC-93 07:16 UTC
15-DEC-93 07:41 -TO- 22-DEC-93 08:05 UTC

Please note that that at all other times F0-20 will be in the digital BBS mode. In December, the analog transponder and digital transponder will each be turned-on for a week period, ALTERNATELY! For those who want to try working F0-20 in the voice mode the following are the passband frequencies of the analog transponder: Uplink passband: 145.900 MHz --> 146.000 MHz. Downlink passband: 435.900 MHz --> 435.800 MHz. The telemetry beacon can be heard at 435.795 MHz. The analog transponder inverts all up-linked signals. LSB on the uplink becomes USB on the downlink. A signal in the lower portion of the uplink passband appears in the upper portion of the downlink passband. For more information, see the September QST, p 104. [JJ1WTK/3]

The AMSAT NEWS Service (ANS) is looking for volunteers to contribute weekly OSCAR status reports. If you have a favorite OSCAR which you work on a regular basis and would like to contribute to this bulletin, please send your observations to WD0HHU at his CompuServe address of 70524,2272, on INTERNET at wd0hhu@amsat.org, or to his local packet BBS in the Denver, CO area, WD0HHU @ W0LJF.#NECO.CO.USA.NOAM. Also, if you find that the current set of orbital elements are not generating the correct AOS/LOS times at your QTH, PLEASE INCLUDE THAT INFORMATION AS WELL. The information you provide will be of value to all OSCAR enthusiasts.

/EX

End of Info-Hams Digest V93 #1318

